



SONY®

RESEARCH MAKES THE DIFFERENCE

**portable television
tape recording
equipment**

SONY



VIDEO MONITORS

Sony 5" video monitor PVJ-3030 weighs 8 lbs.—fully transistorized, operates from its own portable battery, 12V auto/boat battery or 110V AC. 7 $\frac{5}{8}$ " x 4 $\frac{1}{2}$ " x 7 $\frac{1}{4}$ "—rack mount plate available; for single unit—(RM1-303); for dual units—(RM2-303).

Sony 14", 17", 21", 24", 27" video monitors feature plug in chassis construction for ease of maintenance, 10 megacycle band pass, internal or external sync, available in metal cabinet or rack mount models. Linearity better than $\pm 2\%$, geometric distortion less than $\pm 2\%$, available with audio amplifier.

PVJ-3030—5" video monitor with jeep

PVM-14—14" monitor **PVM-21**—21" monitor

PVM-17—17" monitor **PVM-24**—24" monitor

PVM-27—27" monitor

JCA-1/JCO-1—monitor jeep



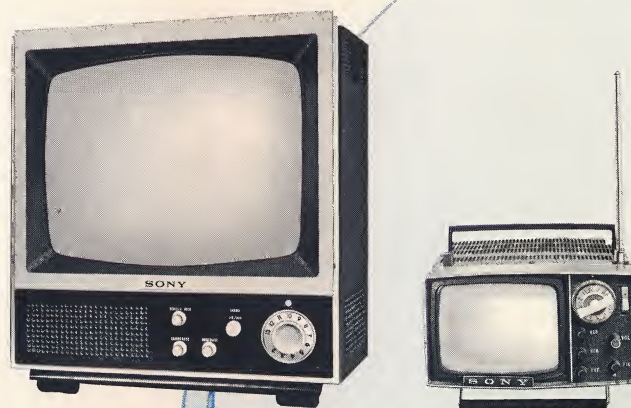
VIDEO RF MONITORS

The Sony 5" and 19" dual monitor/receivers are specifically designed to complement the Sony Videocorder PV-100. These high quality RF receivers have been specially constructed to receive broadcast signals, demodulate them, and, through the special interconnecting cable, feed the PV-100 video and audio signals for recording. In the playback mode of the recorder these monitor/receivers automatically switch to the video monitor function and reproduce the output signals of the Sony Videocorder. You can thus record and reproduce any broadcast transmission.

PVJ-303R—5" monitor/receiver with jeep

PVM-119—19" monitor/receiver with cable

MU-1A—19" monitor/receiver interconnecting cable



TAPE

Sony TV tape V-21L is a magnetic video recording tape of exceptional quality, designed specifically for use with Sony Videocorders. The tape is characterized by its remarkable physical adaption to the rotating VTR heads and its low mechanical friction. The extra pliability of the tape allows more positive head engagement thus extending the frequency range. In addition, there is less system noise, insuring improved picture quality.

Another characteristic of the tape is the highly calendered surface which withstands the abrasion of the rotating VTR heads. This is accomplished through the use of an entirely new binder material on which patents are pending.

The high physical adaptability of the tape coupled with the low mechanical friction and new binder makes slow motion and still frame picture presentation possible without damage or deterioration to the tape. The tape is guaranteed for 1,000 passes over the heads.

V-21L—Sony TV tape—7" reel, 63 minute play

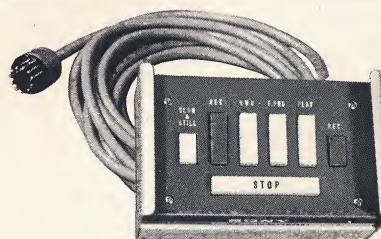
R2-7 —Sony reels



REMOTE CONTROL

The remote control provides all the functions of the control panel on the Videocorder; stop, play, record (interlocked), fast forward, fast rewind, slow, and still. The cable may be extended up to 300 feet from the recorder.

PVR-100—Remote Control Unit



VIDEORECORDER

The revolutionary **SONY PV-100 VIDEORECORDER** for the first time puts television tape recording within the reach of industry, research organizations, hospitals, schools, the theatre and sports, to mention just a few. Remarkably versatile and easy to operate, the PV-100 is completely portable so that, with its associated equipment, it can be easily transported to any location to permanently record on tape any broadcast or closed circuit television transmission, or, with its own camera or any TV camera, can tape any live activity or procedure for immediate or later review.

Weighing only 145 lbs. and just slightly larger than a standard audio tape recorder, the PV-100 records both the video and audio signals simultaneously. These can be played back immediately or at any future time. On a 7-inch reel of 2-inch tape the recorder will store over a full hour's television picture and sound at a speed of $5\frac{3}{4}$ inches per second. This unusually slow tape speed insures remarkably long tape and head life, as well as economy of operation. For full performance the use of Sony video tape V-21L is recommended.

This transistorized video recorder is unique in several ways. A single head carries all the picture information. A second head records the vertical sync. These are all the signals necessary to produce a picture that is distortion-free, sharp, clear, and stable.

Unique with the SONY PV-100 is its "Stop-Look" feature. At the touch of a button, the speed of the picture can be slowed to one-sixtieth of normal, allowing true slow-motion analysis, or it can be stopped completely for close inspection. This feature is indispensable for sports, medical, and industrial applications.

Exclusive new "Rotocoil®" system ends a primary cause of electrical noise in ordinary video-tape recorders. A rotary transformer* eliminates the need for the usual slip ring and brushes in the head assembly resulting in noticeably cleaner pictures. As a supplementary benefit, Rotocoil® ends conventional maintenance problems formerly associated with old fashioned slip ring assemblies.

PV-100—Videorecorder

*patent pending.



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August 28, 1964

Mr. Theodor H. Nelson
Systems Eng.
Interlocking Sys. Co.
Box 1546
Poughkeepsie, New York

Dear Mr. Nelson:

Thank you for your interest in Sony products. I am enclosing our latest brochure, for your further information.

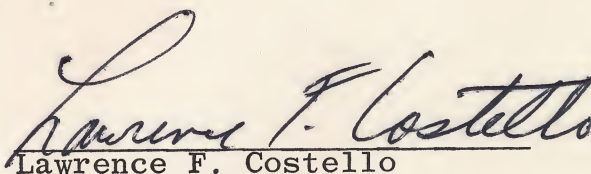
If you wish to see a demonstration or require additional information, please contact our representative at our regional office near you:

Mr. George Klein
Sony Corporation of America
580 Fifth Avenue
New York, N. Y.

We are looking forward to hearing from you in the near future.

Sincerely yours,

SONY CORPORATION OF AMERICA



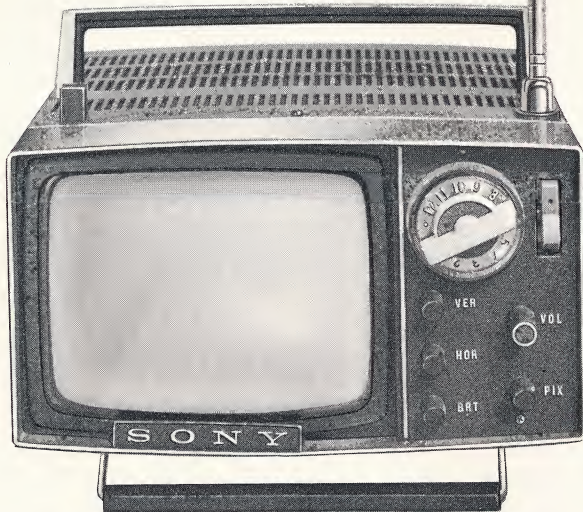
Lawrence F. Costello
National Marketing Manager
Industrial Products Division

LFC/ssc
Enc.
cc: GK

Sys. Eng.

Research makes the difference

SONY[®]
RESEARCH MAKES THE DIFFERENCE[®]



PVJ-303R VIDEO, AUDIO and RF



PVJ-3030 VIDEO and AUDIO ONLY

**UNIQUE
HIGH QUALITY, LOW
COST, VIDEO MONITORS
OPERATE on 110V AC
or 12V DC**

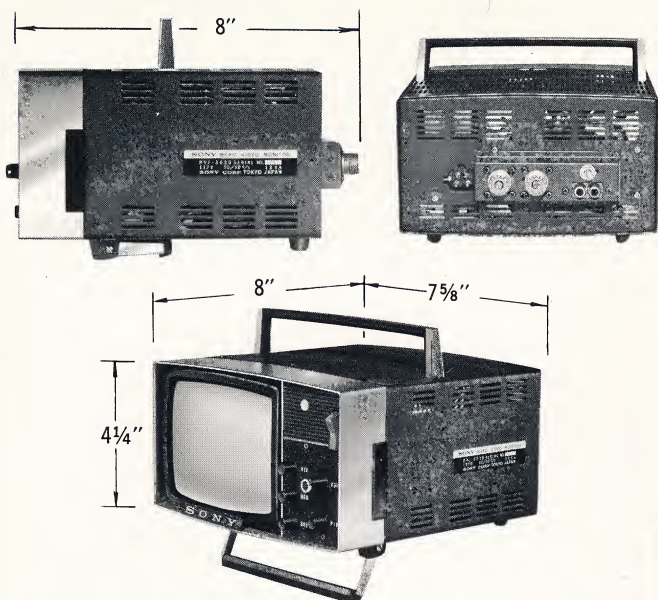
VIDEO RF MONITOR

Completely versatile, the SONY PVJ-303R monitor actually serves three functions: It receives broadcast signals and feeds them to the PV-100 Videocorder for recording; it monitors a Videocorder taped signal for viewing; and it can serve as a standard SONY Micro-TV fully transistorized TV set, operating on its own power pack, auto/boat system or AC. ■ weighs only 8 lbs. and has 25 transistors with easy-to-service snap-out circuit boards ■ 5" specially designed direct-view screen for sharp, bright images ■ has additional feature of a special video amplifier to permit use with closed circuit television systems ■ automatically switches to monitor function when Videocorder is switched to playback ■ complete with removable "jeep" on back of set for simple plug-in connection with Videocorder.

VIDEO MONITOR

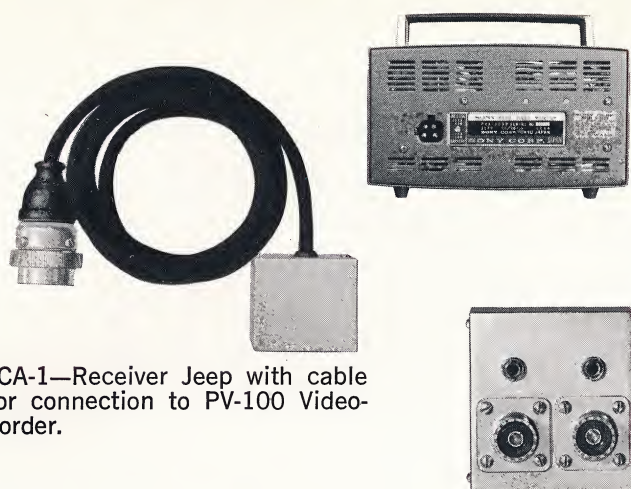
SONY 5" video monitor is built to the same design and specifications as the famous SONY Micro-TV plus the additional feature of a special video amplifier to permit use with closed circuit television systems: fully transistorized, and operates on its own power pack, 12V auto/boat battery and AC, with a bright, crystal clear picture that rivals anything on the market. ■ 25 transistors on three plug-in circuit boards for easy servicing ■ only 8 lbs. for easy portability ■ rack mount plate available for single and dual units ■ complete with "jeep" permanently mounted ■ includes audio amplifier speaker and earphone jacks.

PVJ-3030 VIDEO



PV-3030—has 2 UHF connectors, 2 Audio connectors and has a 72 ohm video termination switch permanently installed on back.

PVJ-303R VIDEO and RF



JCA-1—Receiver Jeep with cable for connection to PV-100 Videocorder.

JCO-1—Receiver Jeep with 2 UHF connectors.



PVJR-102 — Rack mount for two Micro-TV's.

SPECIFICATIONS: PVJ-303R

Dimensions:	Width 7 5/8" Height 4 1/4" Depth 7 1/4" with jeep add 3/4"
Weight:	8 lbs.
Power:	9.6 watts 12V DC 13 watts 110V AC
Antenna:	Rod Antenna 75 ohms, built in Provision for external antenna 75 ohms unbalanced or 300 ohms balanced.
Tuner:	Turret type VHF. Provision for optional all channel UHF.
Sensitivity:	10 uV to 10V PP S/N at max. sensitivity 15 DB or better. Sensitivity @ S/N = 30 dB 160 uV or better.
Picture Quality:	I.F. 3.0 MC Video Amp. 3.0 MC Resolution Horizontal 240 lines Resolution Vertical 400 lines
I.F.	AMP. 4 stage Detection-Diode Video carrier 26.75 MC Audio carrier 22.75 MC
High Voltage:	Output 8 KV/70VA Maximum Brightness 500 LX
Feedback circuits:	Pulse AGC Diode AFC, Balanced Automatic Horizontal Frequency Control Automatic Synchro-noise suppression
Front Mounted Controls:	Horizontal hold, Vertical hold, Brightness, Contrast, Volume on-off.
Side Mounted Controls:	(Screw Driver Adj.) Focus, Vert. Height, Vert. Linearity, Horizontal Frequency

Audio:

4.5 MC Inter carrier
FM Detector—germanium diode
output 150 MW
spkr. 3" Diameter Dynamic 70 Ohms
Hi Impedance
earplug—2 jacks

Recorder Connector: JCA-1

Size: 2 1/2" x 2" x 1"
Video Inputs: 0.5 to 1.5v pp 75 ohms
Audio Inputs: + 4DB 600 ohms
Video Output: .7V pp Composite
Audio Output: + 4 DB 10K ohms
PVJ-303RJ Supplied with Jeep and cable for Videocorder

Video Jeep: JCO-1

PVJ-303RU Jeep with 2 VHF Connectors and 2 Audio Connectors
Input Only
Video: 1.4 Vpp Composite no termination inside
Audio: 10 K ohms unbalanced 0 dbs.

SPECIFICATIONS: PVJ-3030

Deflection:	70°
Front Mounted Controls:	Horizontal hold, Vertical hold, Brightness, Contrast, Volume on-off.
Side Mounted Controls:	(Screw Driver Adj.) Focus, Vert. Height, Vert. Linearity, Horizontal Frequency
Dimensions:	Width 7 5/8" Height 4 1/4" Depth 8"
Weight:	8 lbs.
Power:	9.6 watts 12V DC 13 watts 110V AC
Video:	Input 1V to 2VPP Composite 75 Ohms video amplifier 4.0 MC Resolution—Horizontal 320 lines Vertical 400 lines
High Voltage:	8.0KV 70/VA Max.
Brightness:	500 LX
Audio:	Speaker 3" dia. dynamic 70 Ohms hi impedance Earphone Jacks—2 Input + 4 DB 600 Ohms

SONY CORPORATION OF AMERICA • 580 Fifth Avenue, New York 36, N.Y.

Industrial Division

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